REF 3

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ICF TECHNOLOGY INCORPORATED

TO: Ed Sierra, Region VI RPO

THRU: K.H. Malone, Jr., FITOM

THRU: Tim A. Hall, AFITOM

FROM: Victor Cason, FIT Chemist

DATE: February 28, 1989

SUBJECT: Sampling Inspection for Goodson & Son Trucking, Channelview, Texas. TDD# F-6-8809-29, CERCLIS# TXD9801052475, PAN FTX0557SBF

1. INTRODUCTION

During the week of November 14 - 17, 1988 a five member FIT team consisting of Victor Cason, Steve Cowan, Joe Phillips, Derrick Johnson and Terry Pierce, performed a sampling inspection at the Goodson & Son Trucking site in Channelview, Texas. Eight soil samples and eight water samples were collected at the site. All sixteen samples were analyzed for full RAS TCL at Environmental Industrial Research (EIRA) and for full RAS TAL at Century Laboratories.

2. SITE HISTORY

The site originally existed as a low lying area between the I-10 East Freeway and the 17300 block of Market Street (Figure 1). During the summer of 1979, the owner, Kyle Goodson, filled the area with cement flue dust purchased from Ideal Basic Industries, Lone Star Industries, and Gulf Coast Portland Cement. Complaints regarding airborne dust were received by the Harris County Pollution Control Department (HCPCD) and they performed a site inspection on April 29, 1981. High pH water was noted on-site and in the runoff from the fill area.

FIT performed a site inspection on August 3, 1987 and discovered high pH water in both the north and south ditches. Analysis of a soil sample collected in the north ditch revealed the presence of several polynuclear aromatic compounds and high levels of calcium, magnesium, potassium and sodium (Exhibit 1).

3. SITE OPERATIONS

On November 15, 1988, four soil samples and three water samples were collected and shipped to CLP labs for analysis. At three locations along the south

ditch, both a water and a soil sample were collected (Figure 2). Each soil sample was collected with a dedicated stainless steel trowel. All water samples were collected with dedicated stainless steel beakers and stainless steel buckets. The water samples ranged in pH from 7.1 to 7.3. A sample of the fill material was collected from the center of the fill area at a depth of 6 inches to 1 foot. The material was excavated with the aid of a pick and stainless steel trowel.

The original sampling plan requested two samples of fill material from Station 01. However, Station 01 was also designated as the soil QA/QC sample. Therefore, a duplicate sample of the fill material would have been redundant. Instead a duplicate soil sample was collected at a different location. All of the samples were decontaminated using a distilled water rinse followed by a deionized water rinse. A trip blank was prepared and kept with the sample bottles.

On November 16, 1988, four soil samples and five water samples were shipped to the CLP labs for analysis. Station 10 was designated as the north ditch background water sample. However, no water was present in the north ditch upgradient of the storm sewer outfall, so a sample was collected from a manhole adjacent to the access road for I-10. The manhole received water from a conduit upgradient of the site and fed into the storm sewer in the north ditch. A sediment sample could not be collected from the manhole, therefore, a soil sample was collected in the north ditch upgradient of the storm sewer outfall. Station 06 was the water QA/QC sample. Sufficient volume for the sample was collected in two stainless steel buckets. The water was poured from one bucket to the other to ensure a homogenous sample. Duplicate water and soil samples were collected from the east end of the north ditch. Again all samples were decontaminated according to the procedure previously mentioned. The trip blank was one of the samples shipped on this day. The soil samples were collected with dedicated stainless steel trowels. All water samples were collected with dedicated stainless steel beakers and stainless steel buckets. The pH range of the water samples was 6.9 to 11.7. Table 1 shows the conductivity, temperature and pH measurements of the water samples.

4. RESULTS

A. ORGANIC ANALYSIS

Organic analysis of the fill material, Station 01, revealed the presence of bis (2-ethylhexyl)phthalate, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD (Exhibit 2). From the north ditch, Station 02 contained 4,4'-DDT in a concentration of 94 ppb. Bis (2-ethylhexyl)phthalate, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD were also present in Station 04. Station numbers 12 and 15, collected from the north ditch near the cove, contained bis(2-ethylhexyl)phthalate, phenanthrene and many semi-volatile tentatively identified compounds (TICs).

In the south ditch near the site entrance, Station 03 contained bis (2-ethylhexyl) phthalate, di-n-butylphthalate, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD and several TICs. However, the soil sample near the southern edge of the site

contained only three TICs. The background sample for the south ditch contained very few organic constituents.

The water sample in the north ditch adjacent to the storm sewer contained ethylbenzene, methylene chloride, acetone, styrene, xylene, pentachlorophenol, phenol, fluoranthene, naphthalene, phenanthrene, benzoic acid, 4-methylphenol, 2-methylnaphthalene and a large number of semi-volatile TICs. Several TICs were present in the water samples taken in the north ditch near the cove.

Several semi-volatile TICs were found in the water samples collected in the south ditch adjacent to the site, Stations 08 and 16. The background water sample for the south ditch contained acetone, carbon disulfide and a few semi-volatile TICs.

A broad, unresolved peak was noticed in the chromatographs for sample stations 03, 05, 06, 10, 12, 13, and 15. This suggests the samples contained an oily matrix.

B. INORGANIC ANALYSIS

The sample of fill material from Station 01 contained high concentrations of calcium, potassium and sodium (Exhibit 3). All soil samples collected from the north ditch contained high concentrations of calcium and sodium. Aluminum, and potassium were reported in elevated concentrations in soil samples 02 and 04 (Exhibit 2).

Soil samples from the south ditch contained high concentrations of aluminum, calcium, iron, potassium and sodium as compared to the background south ditch sample.

Elevated levels of barium, calcium, potassium and sodium were found in the water samples from the north ditch as compared to the north ditch background sample, Station 10. Aluminum, arsenic, barium, iron and manganese were also present in elevated levels in Station 06.

Potassium and sodium in high concentrations were found in the water samples collected from the south ditch as compared to Station 11, the south ditch background water. Station 09 also contained elevated levels of barium and magnesium.

5. DISCUSSION & CONCLUSION

In the organic fraction, the on-site sample contained bis (2-ethylhexyl) phthalate, 4,4'-DDT and its degradation products. Three soil samples collected in the drainage pathways also contained one or more of the pesticide compounds. The presence of the degradation products in three of the samples indicates that a period of time had passed since the introduction of the DDT to the site and surrounding area. However, the sample in the north ditch adjacent to the storm sewer, Station 02, exhibited no degradation products and DDT was present in a higher concentration than the other samples. Since the

use of DDT was banned in the early 1970s, the origin of the pesticide at the Goodson & Son Trucking site and surrounding area is not known. DDT was not detected in any of the water samples, including the sample station adjacent to the storm sewer.

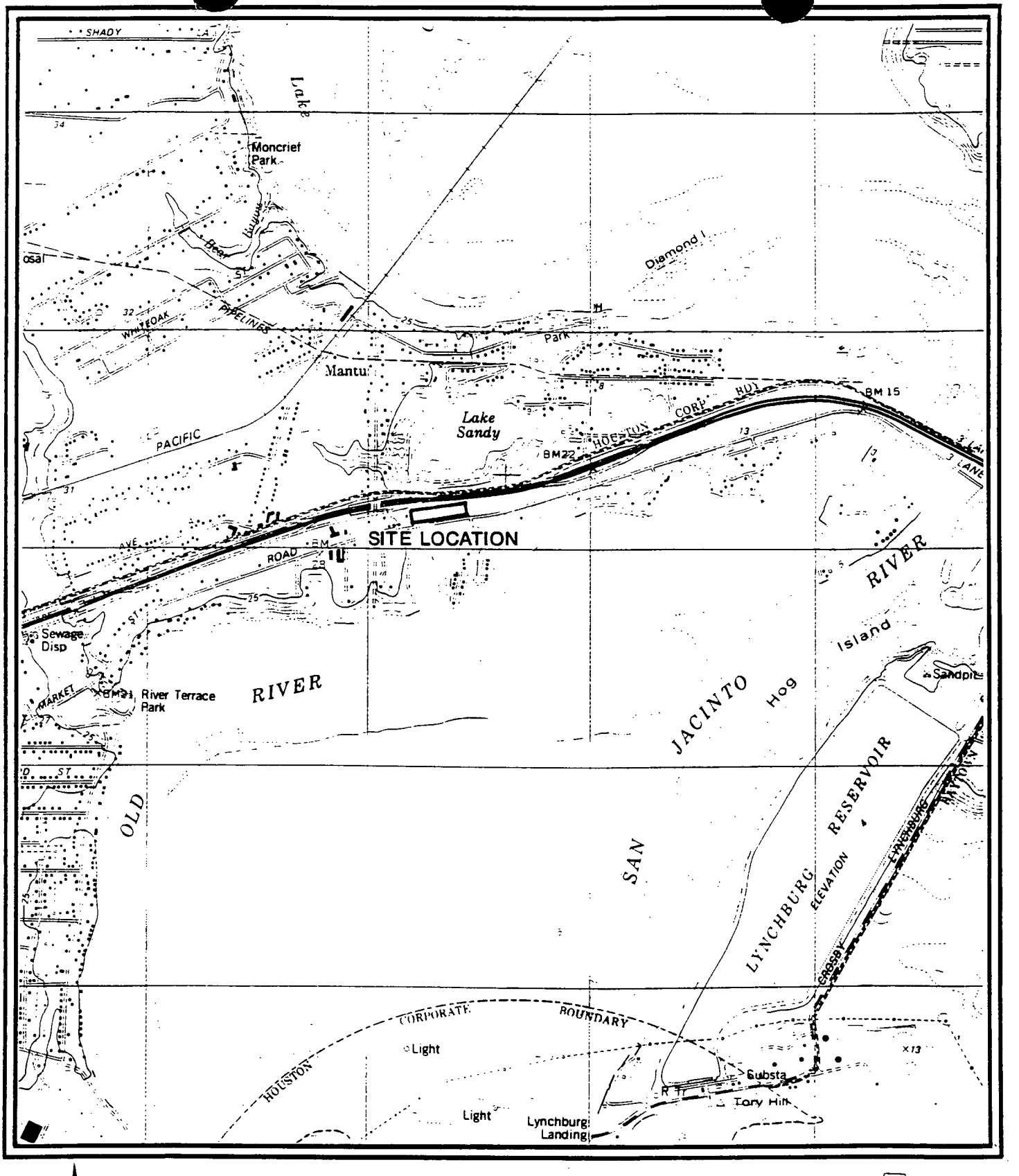
The presence of broad, unresolved chromatographic peaks in several samples indicates the presence of an oily matrix for those samples. Upgradient of the site, several truck repair stations and a truck wash are present and are the most probable cause of the oil in the samples. Station 06 contained several aromatic and polyaromatic compounds typical of oil matrices.

The inorganic analysis of the samples revealed high levels of calcium, potassium and sodium. High calcium concentrations were expected since the fill material is concrete flue dust. The concrete dust is composed of calcium carbonate to a large extent. The presence of some potassium and sodium in the same matrix is not uncommon. The high pH in the north ditch can be attributed somewhat to the calcium carbonate which is soluble in water. However, a pH greater than 11.5 is unusual. The presence of high concentrations of potassium and sodium could indicate that metal hydroxides may also be present in the fill material. A very small quantity of calcium, sodium, or potassium hydroxides can significantly raise the pH in a body of water.

Without further investigation, only the calcium, potassium and sodium contaminants can be attributed to the site. The source of DDT in the north ditch near the sewer as well as on-site is not known at this time. The oil constituents probably entered the north and south ditches from upgradient sources.

Figure 1

ICF



N

0 2000 FT

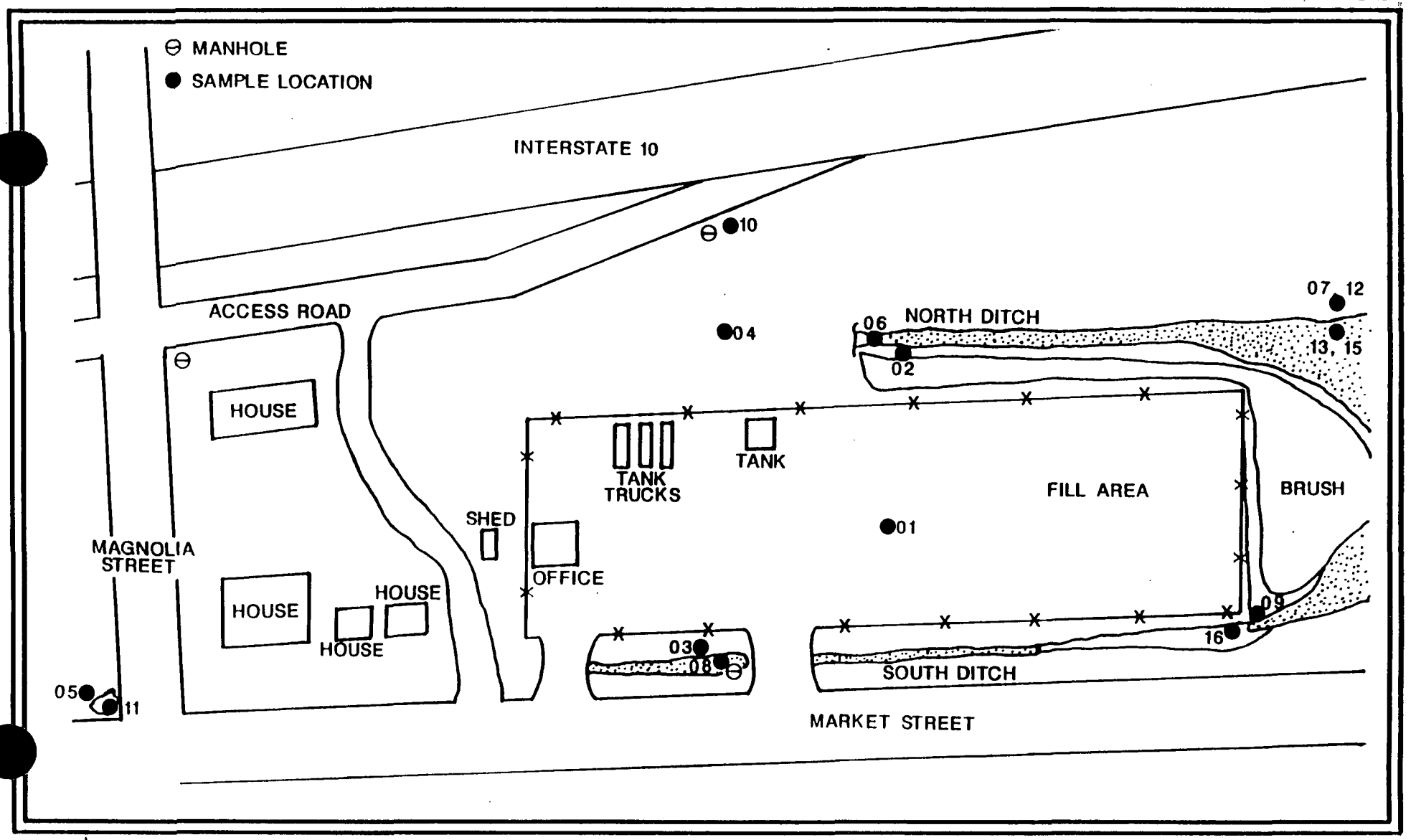
SCALE 1 : 24000

Site Location Map
GOODSON & SON TRUCKING
CHANNELVIEW, TX
TDD NO. F-6-8809-29
CERCLIS NO. TXD981052475

QUADRANGLE LOCATION
HIGHLANDS, TX

Figure 2

ICF



Site Sketch/Sample Location
GOODSON & SON TRUCKING
CHANNELVIEW, TX
TDD NO. F-6-8809-29
CERCLIS NO. TXD981052475

NOT TO SCALE

Exhibit 2

Organic Analysis Results

DATA QUALITY ASSURANCE REVIEW

SITE NAME GOODSON & SON TRUCKING Channelview, TX

SITE CODE TKD981052475

PAN ITX0557SBF

CASE NUMBER 10883

LABORATORY EIRA

SAMPLE NUMBERS

FJ-110	FJ-111	FJ-112	FJ-113
FJ-114	FJ-115	FJ-116	FJ-117
FJ-118	FJ-119	FJ-120	FJ-121
FJ-122	FJ-123	FJ-124	FJ-125

D.a 2-7-89

REVIEWER Victor Cason, ICF Technology

DATA EVALUATION

SITE NAME: Goodson & Son Trucking

CASE NUMBER: 10883

SAMPLE NUMBERS: FJ110, FJ111, FJ112, FJ113, FJ114, FJ115, FJ116, FJ117, FJ118, FJ119, FJ120, FJ121, FJ122, FJ123, FJ124, FJ125

The data package consists of 8 water and 8 soil samples analyzed for VOAs, ABNs and Pesticides/PCBs using low concentration protocols. The following qualifications are placed on the data.

VOA FRACTION:

1. Sample FJ115 was analyzed at a 1 to 10 dilution. Samples FJ119 and FJ122 were analyzed at 1 to 2 dilutions. Dilutions result in higher sample detection limits.

2. Due to calibration criteria out of control limits, reported concentrations of 2-butanone in samples FJ111, FJ114 and FJ122 are considered estimates (J flag). All reported detection limits for 2-butanone in the remaining samples are considered unusable.

3. All reported detection limits for 2-hexanone are considered unusable due to unacceptable calibration criteria.

4. Calibration criteria for methylene chloride and acetone were out of control limits in the continuing calibrations for all samples. All reported concentrations and detection limits for methylene chloride and acetone are considered estimates (J flag).

5. Vinyl chloride was out of the CCC control limits in the soil continuing calibration on 11/18/88 at 0607 hours. A new initial calibration was not conducted and the samples were not reanalyzed, therefore the laboratory is in violation of their contract.

6. Calibration criteria out of control limits were noted in both VOA continuing calibrations, however none of these compounds were detected in the samples and the effect is that the reported detection limits for these compounds are considered estimates.

7. Methylene chloride and acetone were detected in the soil method blank. Sample concentrations of these analytes less than ten times their concentration in the method blank are flagged "B" on the data summary.

ABN FRACTION

1. Samples FJ114, FJ119, FJ122 FJ122MS and FJ122MSD were all analyzed at 1 to 2 dilutions. Sample FJ115 was analyzed at no and 1 to 2 dilutions. Dilutions have the effect of raising sample detection limits.

2. The reported concentration of benzoic acid in sample FJ115 is considered

an estimate due to calibration criteria out of control limits. Reported detection limits for benzoic acid in the remaining samples, except FJ110 are considered unusable due to unacceptable calibration criteria.

3. Calibration criteria out of control limits were noted for several other compounds in continuing calibrations, however these compounds were not detected in the associated samples and the effect is that detection limits for these compounds are considered estimates.

4. TIC compounds were detected in both of the water method blanks. Sample concentrations of these TICs less than 5 times their method blank concentration are flagged "B" of the summary sheets.

5. Recoveries of surrogates were out of control limits in the analysis of samples FJ121 and FJ118MSD, however the data is not significantly affected.

6. Recoveries of the matrix spike compounds were consistently low in the matrix spike duplicate analysis of water sample FJ118, with six of the eleven compounds having recoveries below control limits. The poor recovery of 4-nitrophenol may be due to low response factors noted in all of the continuing calibrations. The generally poor recoveries may be due to poor spiking techniques by the laboratory.

7. Samples FJ112, FJ114, FJ115, FJ116, FJ119, FJ120, FJ121, FJ122, and FJ124 each contained a broad, poorly resolved chromatographic peak. Chromatographic peaks of this type are generally associated with oily materials.

PESTICIDE/PCB FRACTION

1. Sample FJ118 was analyzed at a 1 to 3 dilution. Samples FJ111, FJ118MS and FJ118MSD were analyzed at 1 to 5 dilutions. Samples FJ115, FJ116, FJ117, FJ120, FJ124 and FJ125 were analyzed at 1 to 10 dilutions. Sample FJ119 was analyzed at a 1 to 1000 dilution. Dilutions have the effect of raising the sample detection limits.

2. Reported concentrations and detection limits for sample FJ112 are all off by a factor of 2 since the laboratory did not take into account that the sample size was 15 grams instead of 30 grams.

3. Reported detection limits in sample FJ118 are all off by a factor of 1.67 since the laboratory did not take into account that the sample size was 300ml instead of 500ml. This results in a surrogate recovery of approximately 27% which is within control limits.

4. The laboratory reported that surrogate was diluted out in samples FJ111, FJ119, FJ122 and FJ123. Sample FJ123 was not analyzed at a dilution, indicating the possibility that the sample was not spiked, as does the 0% recovery of the surrogate in the soil method blank.

5. Recovery of the surrogate was high in sample FJ110. No qualification are placed on the data at this time.

6. Recoveries of the matrix spike compounds were very inconsistent in the

water matrix spike and duplicate, however the recoveries were all within limits for the soil matrix spike and duplicate. The data is not qualified at this time.

Chemical Data Summary

SITE NAME AND CODE: GOODSON & SON TRUCKING
CASE NUMBER: 10883

CONCENTRATIONS IN PARTS PER BILLION (ug/L WATER, ug/kg SOIL)
Compiled by : Ecology & Environment, Inc.

TRAFFIC REPORT NUMBER AND STATION LOCATION

Organic Traffic Number			FJ-110		FJ-111		FJ-112		FJ-113		FJ-114		FJ-115		FJ-116		FJ-117		FJ-118		FJ-119	
Matrix			SOIL		SOIL		SOIL		SOIL		SOIL		WATER		WATER		WATER		WATER		SOIL	
Percent Moisture			34		26		33		25		14										22	
Location And/Or Sample Description			STATION #01 FILL MATERIAL FROM CENTER OF SITE		STATION #02 NORTH DITCH NEAR UNDER-GROUND STORM CONDUIT		STATION #03 SOUTH DITCH NEAR SITE ENTRANCE		STATION #04 NORTH DITCH ABOVE STORM SEWER		STATION #05 SOUTH DITCH BACKGROUND WEST OF MAGNOLIA STREET		STATION #06 NORTH DITCH NEAR STORM CONDUIT		STATION #07 NORTH DITCH NEAR COVE		STATION #08 SOUTH DITCH NEAR SITE ENTRANCE		STATION #09 SOUTH DITCH NEAR COVE		STATION #12 NORTH DITCH NEAR COVE	
Compound Name	CAS/SCAN	CLASS																				
ETHYLBENZENE	100-41-4	VOA/1											77									
METHYLENE CHLORIDE	75-09-2	VOA/1	21	BJ	13	BJ	61	BJ	20	BJ	18	BJ	1800	J							24	BJ
TOLUENE	108-88-3	VOA/1																				
ACETONE	67-64-1	VOA/1	14	BJ							13	BJ	150	BJ							110	J
2-BUTANONE	78-93-3	VOA/1			9	J					14	J										
CARBON DISULFIDE	75-15-0	VOA/1													3	J						
STYRENE	100-42-5	VOA/1											1600								15	
TOTAL XYLENES	1330-20-7	VOA/1											120								14	
PENTACHLOROPHENOL	87-86-5	ABN/1											22	J								
PHENOL	108-95-2	ABN/1											52									
FLUORANTHENE	206-44-0	ABN/1											8	J								
NAPHTHALENE	91-20-3	ABN/1											25									
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	ABN/1	160	J			250	J	190	J											450	J
DI-N-BUTYL PHTHALATE	84-74-2	ABN/1					830															
PHENANTHRENE	85-01-8	ABN/1											22								590	J
BENZOIC ACID	65-85-0	ABN/1											430	J								
4-METHYLPHENOL	106-44-5	ABN/1											19									
2-METHYLNAPHTHALENE	91-57-6	ABN/1											58									
4,4'-DDT	50-29-3	PES/1	33		94		28		21													
4,4'-DDE	72-55-9	PES/1	15				9.8	J	20													
4,4'-DDD	72-54-8	PES/1	6.9	J			2.8	J														
UNKNOWN	2169	VOA/2																			20	J
HYDROCARBON	2587	VOA/2																			90	J
HYDROCARBON	2653	VOA/2																			300	J
UNKNOWN	2777	VOA/2																			10	J
UNKNOWN	2970	VOA/2																			20	J
UNKNOWN	3257	VOA/2																			50	J
[redacted]N	3326	VOA/2																			60	J
[redacted]N	648	ABN/2											400	J								
UNKNOWN	711	ABN/2													30	BJ						
UNKNOWN	729	ABN/2					500	J														
UNKNOWN	732	ABN/2																				
UNKNOWN	735	ABN/2																	20	BJ		
UNKNOWN	751	ABN/2													70	BJ			10	BJ		
UNKNOWN	770	ABN/2																				
UNKNOWN	773	ABN/2																				
UNKNOWN	774	ABN/2													20	BJ						
UNKNOWN	799	ABN/2																	8	J		
UNKNOWN	880	ABN/2															10	J				
UNKNOWN	904	ABN/2															40	J				

VOA - VOLATILE ABN - ACID/BASE/NEUTRAL PES - PESTICIDE/PCB
1 - TARGET COMPOUND LIST COMPOUND (TCL) 2 - TENTATIVELY IDENTIFIED COMPOUND (TIC)
J - ESTIMATED CONCENTRATION (TIC, TCL LESS THAN CRQL, OR TCL WITH QA/QC OUT OF CONTROL LIMITS) U - UNDETECTED DETECTION LIMIT

ITE NAME AND CODE: GOODSON & SON TRUCKING
ASE NUMBER: 10883

NCENTRATIONS IN PARTS PER BILLION (ug/L WATER, ug/kg SOIL)
mpiled by : Ecology & Environment, Inc.

TRAFFIC REPORT NUMBER AND STATION LOCATION

Organic Traffic Number	FJ-110	FJ-111	FJ-112	FJ-113	FJ-114	FJ-115	FJ-116	FJ-117	FJ-118	FJ-119
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER	WATER	SOIL
Percent Moisture	34	26	33	25	14					22
Location And/Or Sample Description	STATION #01 FILL MATERIAL FROM CENTER OF SITE	STATION #02 NORTH DITCH NEAR UNDER-GROUND STORM CONDUIT	STATION #03 SOUTH DITCH NEAR SITE ENTRANCE	STATION #04 NORTH DITCH ABOVE STORM SEWER	STATION #05 SOUTH DITCH BACKGROUND WEST OF MAGNOLIA STREET	STATION #06 NORTH DITCH NEAR STORM CONDUIT	STATION #07 NORTH DITCH NEAR COVE	STATION #08 SOUTH DITCH NEAR SITE ENTRANCE	STATION #09 SOUTH DITCH NEAR COVE	STATION #12 NORTH DITCH NEAR COVE
Compound Name	CAS/SCAN CLASS									
UNKNOWN	1169 ABN/2					50 J				
UNKNOWN ALKANE	1177 ABN/2					60 J				
UNKNOWN	1196 ABN/2							20 J		
UNKNOWN	1197 ABN/2									
UNKNOWN	1306 ABN/2									3000 J
UNKNOWN	1325 ABN/2							10 J		
UNKNOWN	1329 ABN/2					40 J				
UNKNOWN	1426 ABN/2									
UNKNOWN	1427 ABN/2					200 J				4000 J
UNKNOWN	1442 ABN/2					60 J				
UNKNOWN	1460 ABN/2					70 J	10 J			
UNKNOWN	1464 ABN/2					40 J				2000 J
UNKNOWN	1483 ABN/2					80 J				
UNKNOWN	1485 ABN/2									2000 J
UNKNOWN	1498 ABN/2					60 J				2000 J
UNKNOWN	1540 ABN/2					40 J				
UNKNOWN	1544 ABN/2									
UNKNOWN	1585 ABN/2									
UNKNOWN	1602 ABN/2									
UNKNOWN	1603 ABN/2						10 J			
UNKNOWN	1621 ABN/2						20 J			
UNKNOWN	1633 ABN/2							10 J		
UNKNOWN	1638 ABN/2					30 J				
UNKNOWN	1639 ABN/2									2000 J
UNKNOWN	1640 ABN/2									
UNKNOWN	1646 ABN/2									6000 J
UNKNOWN	1646 ABN/2						10 J			
[redacted]	1650 ABN/2							10 J		
[redacted]	1657 ABN/2						20 J			
[redacted]	1661 ABN/2									
UNKNOWN	1674 ABN/2						10 BJ		10 BJ	
UNKNOWN	1682 ABN/2						10 J			
UNKNOWN	1698 ABN/2									
UNKNOWN	1747 ABN/2					70 J				6000 J
UNKNOWN	1750 ABN/2									
UNKNOWN	1752 ABN/2					40 J	20 J			5000 J
UNKNOWN	1755 ABN/2									
UNKNOWN	1758 ABN/2									
UNKNOWN	1764 ABN/2							8 J		
UNKNOWN	1769 ABN/2						10 J			900 J

OA - VOLATILE ABN - ACID/BASE/NEUTRAL PES - PESTICIDE/PCB
- TARGET COMPOUND LIST COMPOUND (TCL) 2 - TENTATIVELY IDENTIFIED COMPOUND (TIC)
- ESTIMATED CONCENTRATION (TIC, TCL LESS THAN CRQL, OR TCL WITH QA/QC OUT OF CONTROL LIMITS) U - UNDETECTED, DETECTION LIMIT

SITE NAME AND CODE: GOODSON & SON TRUCKING
CASE NUMBER: 10883

CONCENTRATIONS IN PARTS PER BILLION (ug/L WATER, ug/kg SOIL)
Compiled by : Ecology & Environment, Inc.

TRAFFIC REPORT NUMBER AND STATION LOCATION

Organic Traffic Number			FJ-110	FJ-111	FJ-112	FJ-113	FJ-114	FJ-115	FJ-116	FJ-117	FJ-118	FJ-119
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER	WATER	SOIL
Percent Moisture			34	26	33	25	14					22
Location			STATION #01	STATION #02	STATION #03	STATION #04	STATION #05	STATION #06	STATION #07	STATION #08	STATION #09	STATION #12
And/Or			FILL MATERIAL	NORTH DITCH	SOUTH DITCH	NORTH DITCH	SOUTH DITCH	NORTH DITCH	NORTH DITCH	SOUTH DITCH	SOUTH DITCH	NORTH DITCH
Sample			FROM CENTER	NEAR UNDER-	NEAR SITE	ABOVE STORM	BACKGROUND	NEAR STORM	NEAR COVE	NEAR SITE	NEAR COVE	NEAR COVE
Description			OF SITE	GROUND STORM	ENTRANCE	SEWER	WEST OF	CONDUIT		ENTRANCE		
				CONDUIT			MAGNOLIA					
Compound Name	CAS/SCAN	CLASS					STREET					
UNKNOWN	1771	ABN/2										
UNKNOWN	1772	ABN/2								10 J		
UNKNOWN	1774	ABN/2										
UNKNOWN	1778	ABN/2										
UNKNOWN	1780	ABN/2							8 J			
UNKNOWN	1783	ABN/2										
UNKNOWN	1788	ABN/2						20 J				
UNKNOWN	1790	ABN/2										2000 J
UNKNOWN	1792	ABN/2										
UNKNOWN	1796	ABN/2							8 J			
UNKNOWN	1801	ABN/2								10 J		
UNKNOWN	1801	ABN/2										
UNKNOWN	1809	ABN/2								8 J		
UNKNOWN	1818	ABN/2								8 J		
UNKNOWN	1851	ABN/2							10 J			900 J
UNKNOWN	1879	ABN/2										
UNKNOWN	1882	ABN/2										1000 J
UNKNOWN	1885	ABN/2										
UNKNOWN	1903	ABN/2										
UNKNOWN	1928	ABN/2						60 J	10 J			1000 J
UNKNOWN	1929	ABN/2										
UNKNOWN	1934	ABN/2										5000 J
UNKNOWN	1974	ABN/2							10 J			
UNKNOWN	2006	ABN/2										900 J
UNKNOWN	2019	ABN/2						50 J	20 J			5000 J
UNKNOWN	2072	ABN/2							10 J			
UNKNOWN	2083	ABN/2										
UNKNOWN	2102	ABN/2						30 J	10 J			3000 J
[redacted]	2182	ABN/2						60 J				2000 J
[redacted]	2257	ABN/2						30 J				1000 J
[redacted] ALKANE	2534	ABN/2			200 J							
UNKNOWN	2584	ABN/2	500 J									
UNKNOWN ALKANE	2597	ABN/2			300 J							
UNKNOWN	2622	ABN/2			300 J							
UNKNOWN ALKANE	2661	ABN/2			400 J							
UNKNOWN	2676	ABN/2			200 J							
UNKNOWN	2775	ABN/2				500 J	1000 J					
UNKNOWN	2803	ABN/2					300 J					
UNKNOWN ALKANE	2815	ABN/2			700 J							
UNKNOWN	2858	ABN/2					300 J					

VOA - VOLATILE ABN - ACID/BASE/NEUTRAL PES - PESTICIDE/PCB
1 - TARGET COMPOUND LIST COMPOUND (TCL) 2 - TENTATIVELY IDENTIFIED COMPOUND (TIC)
J - ESTIMATED CONCENTRATION (TIC, TCL LESS THAN CRQL, OR TCL WITH QA/QC OUT OF CONTROL LIMITS) U - UNDETECTED, DETECTION LIMIT
R - DATA FOR ANALYTE IS UNUSABLE B - ANALYTE DETECTED AT COMPARABLE CONCENTRATION IN ASSOCIATED BLANK

Chemical Data Summary

SITE NAME AND CODE: GOODSON & SON TRUCKING
CASE NUMBER: 10883

CONCENTRATIONS IN PARTS PER BILLION (ug/L WATER, ug/kg SOIL)
Compiled by : Ecology & Environment, Inc.

TRAFFIC REPORT NUMBER AND STATION LOCATION

Organic Traffic Number			FJ-110	FJ-111	FJ-112	FJ-113	FJ-114	FJ-115	FJ-116	FJ-117	FJ-118	FJ-119
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER	WATER	SOIL
Percent Moisture			34	26	33	25	14					22
Location And/Or Sample Description			STATION #01 FILL MATERIAL FROM CENTER OF SITE	STATION #02 NORTH DITCH NEAR UNDER-GROUND STORM CONDUIT	STATION #03 SOUTH DITCH NEAR SITE ENTRANCE	STATION #04 NORTH DITCH ABOVE STORM SEWER	STATION #05 SOUTH DITCH BACKGROUND WEST OF MAGNOLIA STREET	STATION #06 NORTH DITCH NEAR STORM CONDUIT	STATION #07 NORTH DITCH NEAR COVE	STATION #08 SOUTH DITCH NEAR SITE ENTRANCE	STATION #09 SOUTH DITCH NEAR COVE	STATION #12 NORTH DITCH NEAR COVE
Compound Name	CAS/SCAN	CLASS										
UNKNOWN	2911	ABN/2			200 J							
UNKNOWN	3006	ABN/2			5000 J							
UNKNOWN	3018	ABN/2			2000 J							
UNKNOWN	3110	ABN/2			1000 J							
UNKNOWN	3111	ABN/2					800 J					
UNKNOWN	3133	ABN/2			300 J							
UNKNOWN	3149	ABN/2			700 J							
UNKNOWN	3173	ABN/2			800 J							
UNKNOWN	3240	ABN/2			400 J							
UNKNOWN	3244	ABN/2			200 J							
UNKNOWN	3287	ABN/2			700 J							
UNKNOWN	3319	ABN/2					300 J					
UNKNOWN	3374	ABN/2			4000 J							
UNKNOWN	3429	ABN/2			2000 J							
UNKNOWN	3471	ABN/2			1000 J							

V3A - VOLATILE ABN - ACID/BASE/NEUTRAL PES - PESTICIDE/PCB
1 - TARGET COMPOUND LIST COMPOUND (TCL) 2 - TENTATIVELY IDENTIFIED COMPOUND (TIC)
J - ESTIMATED CONCENTRATION (TIC, TCL LESS THAN CRQL, OR TCL WITH QA/QC OUT OF CONTROL LIMITS) U - UNDETECTED, DETECTION LIMIT

SITE NAME AND CODE: GOODSON & SON TRUCKING
CASE NUMBER: 10883

CONCENTRATIONS IN PARTS PER BILLION (ug/L WATER, ug/kg SOIL)
Compiled by : Ecology & Environment, Inc.

TRAFFIC REPORT NUMBER AND STATION LOCATION

Organic Traffic Number			FJ-120		FJ-121		FJ-122		FJ-123		FJ-124		FJ-125	
Matrix			WATER		WATER		SOIL		SOIL		WATER		WATER	
Percent Moisture							22		17					
Location And/Or Sample Description			STATION #13 NORTH DITCH NEAR COVE		STATION #14 TRIP BLANK		STATION #15 NORTH DITCH NEAR COVE DUPLICATE		STATION #16 SOUTH DITCH NEAR COVE		STATION #10 MANHOLE NEAR ACCESS ROAD NORTH OF SITE		STATION #11 SOUTH DITCH BACKGROUND WEST OF MAGNOLIA STREET	
Compound Name	CAS/SCAN	CLASS												
ETHYLBENZENE	100-41-4	VOA/1												
METHYLENE CHLORIDE	75-09-2	VOA/1							7	B				
TOLUENE	108-88-3	VOA/1			5	J								
ACETONE	67-64-1	VOA/1	11	J									54	J
2-BUTANONE	78-93-3	VOA/1					21	J						
CARBON DISULFIDE	75-15-0	VOA/1	3	J	3	J							3	J
STYRENE	100-42-5	VOA/1												
TOTAL XYLENES	1330-20-7	VOA/1												
PENTACHLOROPHENOL	87-86-5	ABN/1												
PHENOL	108-95-2	ABN/1												
FLUORANTHENE	206-44-0	ABN/1												
NAPHTHALENE	91-20-3	ABN/1												
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	ABN/1	13				280	J						
DI-N-BUTYL PHTHALATE	84-74-2	ABN/1												
PHENANTHRENE	85-01-8	ABN/1					690	J						
BENZOIC ACID	65-85-0	ABN/1												
4-METHYLPHENOL	106-44-5	ABN/1												
2-METHYLNAPHTHALENE	91-57-6	ABN/1												
4,4'-DDT	50-29-3	PES/1			.067	J								
4,4'-DDE	72-55-9	PES/1												
4,4'-DDD	72-54-8	PES/1												
UNKNOWN	2169	VOA/2												
HYDROCARBON	2587	VOA/2												
HYDROCARBON	2653	VOA/2												
UNKNOWN	2777	VOA/2												
UNKNOWN	2970	VOA/2												
UNKNOWN	3257	VOA/2												
UNKNOWN	3326	VOA/2												
[redacted]	648	ABN/2												
[redacted]	711	ABN/2	20	BJ	20	BJ								
UNKNOWN	729	ABN/2												
UNKNOWN	732	ABN/2			10	J								
UNKNOWN	735	ABN/2											10	BJ
UNKNOWN	751	ABN/2	90	BJ	10	BJ					50	BJ		
UNKNOWN	770	ABN/2			8	J								
UNKNOWN	773	ABN/2			20	BJ								
UNKNOWN	774	ABN/2												
UNKNOWN	799	ABN/2												
UNKNOWN	880	ABN/2												
UNKNOWN	904	ABN/2												

VOA - VOLATILE ABN - ACID/BASE/NEUTRAL PES - PESTICIDE/PCB
1 - TARGET COMPOUND LIST COMPOUND (TCL) 2 - TENTATIVELY IDENTIFIED COMPOUND (TIC)
J - ESTIMATED CONCENTRATION (TIC, TCL LESS THAN CRQL, OR TCL WITH QA/QC OUT OF CONTROL LIMITS) U - UNDETECTED, DETECTION LIMIT
R - DATA FOR ANALYTE IS UNUSABLE E - ANALYTE INTERFERES AT EXPONENTIAL CONCENTRATION W - CORRECTED FLOW

Chemical Data Summary

SITE NAME AND CODE: GOODSON & SON TRUCKING
CASE NUMBER: 10883

CONCENTRATIONS IN PARTS PER BILLION (ug/L WATER, ug/kg SOIL)
Compiled by : Ecology & Environment, Inc.

TRAFFIC REPORT NUMBER AND STATION LOCATION

Organic Traffic Number			FJ-120			FJ-121		FJ-122			FJ-123		FJ-124			FJ-125								
Matrix			WATER			WATER		SOIL			SOIL		WATER			WATER								
Percent Moisture								22			17													
Location			STATION #13			STATION #14		STATION #15			STATION #16		STATION #10			STATION #11								
And/Or			NORTH DITCH			TRIP BLANK		NORTH DITCH			SOUTH DITCH		MANHOLE NEAR			SOUTH DITCH								
Sample			NEAR COVE					NEAR COVE			NEAR COVE		ACCESS ROAD			BACKGROUND								
Description								DUPLICATE					NORTH OF SITE			WEST OF								
																MAGNOLIA								
Compound Name	CAS/SCAN	CLASS														STREET								
UNKNOWN	1169	ABN/2																						
UNKNOWN ALKANE	1177	ABN/2																						
UNKNOWN	1196	ABN/2																						
UNKNOWN	1197	ABN/2														8	J							
UNKNOWN	1306	ABN/2						4000	J															
UNKNOWN	1325	ABN/2																						
UNKNOWN	1329	ABN/2																						
UNKNOWN	1426	ABN/2	10	J																				
UNKNOWN	1427	ABN/2						5000	J															
UNKNOWN	1442	ABN/2	10	J				2000	J															
UNKNOWN	1460	ABN/2																						
UNKNOWN	1464	ABN/2																						
UNKNOWN	1483	ABN/2	20	J																				
UNKNOWN	1485	ABN/2						3000	J															
UNKNOWN	1498	ABN/2						3000	J															
UNKNOWN	1540	ABN/2																						
UNKNOWN	1544	ABN/2						2000	J															
UNKNOWN	1585	ABN/2	10	J																				
UNKNOWN	1602	ABN/2	10	J																				
UNKNOWN	1603	ABN/2						2000	J															
UNKNOWN	1621	ABN/2																						
UNKNOWN	1633	ABN/2																						
UNKNOWN	1638	ABN/2																						
UNKNOWN	1639	ABN/2																						
UNKNOWN	1640	ABN/2	10	J				2000	J				20	J										
UNKNOWN	1646	ABN/2						8000	J				40	J										
UNKNOWN	1646	ABN/2	20	J																				
[redacted]	1650	ABN/2																						
[redacted]	1657	ABN/2	10	J									30	J										
UNKNOWN	1661	ABN/2						2000	J															
UNKNOWN	1674	ABN/2																						
UNKNOWN	1682	ABN/2																						
UNKNOWN	1698	ABN/2											20	J										
UNKNOWN	1747	ABN/2	20	J																				
UNKNOWN	1750	ABN/2											50	J										
UNKNOWN	1752	ABN/2	20	J				3000	J				80	J										
UNKNOWN	1755	ABN/2														8	J							
UNKNOWN	1758	ABN/2						3000	J															
UNKNOWN	1764	ABN/2														20	J							
UNKNOWN	1769	ABN/2	10	J																				

VOA - VOLATILE ABN - ACID/BASE/NEUTRAL PES - PESTICIDE/PCB
1 - TARGET COMPOUND LIST COMPOUND (TCL) 2 - TENTATIVELY IDENTIFIED COMPOUND (TIC)
J - ESTIMATED CONCENTRATION (TIC, TCL LESS THAN CROL, OR TCL WITH QA/QC OUT OF CONTROL LIMITS) U - UNDETECTED, DETECTION LIMIT

Chemical Data Summary

SITE NAME AND CODE: GOODSON & SON TRUCKING
CASE NUMBER: 10883

CONCENTRATIONS IN PARTS PER BILLION (ug/L WATER, ug/kg SOIL)
Compiled by : Ecology & Environment, Inc.

TRAFFIC REPORT NUMBER AND STATION LOCATION

Compound Name	CAS/SCAN	CLASS	FJ-120	FJ-121	FJ-122	FJ-123	FJ-124	FJ-125				
Matrix			WATER	WATER	SOIL	SOIL	WATER	WATER				
Percent Moisture					22	17						
Location And/Or Sample Description			STATION #13 NORTH DITCH NEAR COVE	STATION #14 TRIP BLANK	STATION #15 NORTH DITCH NEAR COVE DUPLICATE	STATION #16 SOUTH DITCH NEAR COVE	STATION #10 MANHOLE NEAR ACCESS ROAD NORTH OF SITE	STATION #11 SOUTH DITCH BACKGROUND WEST OF MAGNOLIA STREET				
UNKNOWN	1771	ABN/2						30 J				
UNKNOWN	1772	ABN/2										
UNKNOWN	1774	ABN/2			800 J		20 J					
UNKNOWN	1778	ABN/2						20 J				
UNKNOWN	1780	ABN/2										
UNKNOWN	1783	ABN/2						20 J				
UNKNOWN	1788	ABN/2										
UNKNOWN	1790	ABN/2			1000 J		20 J					
UNKNOWN	1792	ABN/2						20 J				
UNKNOWN	1796	ABN/2										
UNKNOWN	1801	ABN/2						30 J				
UNKNOWN	1801	ABN/2					20 J					
UNKNOWN	1809	ABN/2						30 J				
UNKNOWN	1818	ABN/2						20 J				
UNKNOWN	1851	ABN/2	10 J				50 J					
UNKNOWN	1879	ABN/2					20 J					
UNKNOWN	1882	ABN/2										
UNKNOWN	1885	ABN/2					20 J					
UNKNOWN	1903	ABN/2					20 J					
UNKNOWN	1928	ABN/2	10 J		800 J		20 J					
UNKNOWN	1929	ABN/2						10 J				
UNKNOWN	1934	ABN/2			2000 J		30 J					
UNKNOWN	1974	ABN/2	10 J									
UNKNOWN	2006	ABN/2										
UNKNOWN	2019	ABN/2	20 J		3000 J		40 J					
UNKNOWN	2072	ABN/2	10 J				20 J					
UNKNOWN	2083	ABN/2					20 J					
UNKNOWN	2102	ABN/2	10 J		2000 J		20 J					
[illegible]N	2182	ABN/2			2000 J							
[illegible]N	2257	ABN/2			1000 J							
UNKNOWN ALKANE	2534	ABN/2										
UNKNOWN	2584	ABN/2										
UNKNOWN ALKANE	2597	ABN/2										
UNKNOWN	2622	ABN/2				200 J						
UNKNOWN ALKANE	2661	ABN/2				200 J						
UNKNOWN	2676	ABN/2										
UNKNOWN	2775	ABN/2										
UNKNOWN	2803	ABN/2										
UNKNOWN ALKANE	2815	ABN/2				300 J						
UNKNOWN	2858	ABN/2										

VOA - VOLATILE ABN - ACID/BASE/NEUTRAL PES - PESTICIDE/PCB
1 - TARGET COMPOUND LIST COMPOUND (TCL) 2 - TENTATIVELY IDENTIFIED COMPOUND (TIC)
J - ESTIMATED CONCENTRATION (TIC, TCL LESS THAN CRQL, OR TCL WITH QA/QC OUT OF CONTROL LIMITS) U - UNDETECTED, DETECTION LIMIT
R - DATA FOR ANALYTE IS UNUSABLE B - ANALYTE DETECTED AT COMPARABLE CONCENTRATION IN ASSOCIATED BLANK

Chemical Data Summary

ITE NAME AND CODE: GOODSON & SON TRUCKING
ASE NUMBER: 10883

ONCENTRATIONS IN PARTS PER BILLION (ug/L WATER, ug/kg SOIL)
ompiled by : Ecology & Environment, Inc.

TRAFFIC REPORT NUMBER AND STATION LOCATION

			Organic Traffic Number	FJ-120	FJ-121	FJ-122	FJ-123	FJ-124	FJ-125				
			Matrix	WATER	WATER	SOIL	SOIL	WATER	WATER				
			Percent Moisture			22	17						
			Location	STATION #13	STATION #14	STATION #15	STATION #16	STATION #10	STATION #11				
			And/Or	NORTH DITCH	TRIP BLANK	NORTH DITCH	SOUTH DITCH	MANHOLE NEAR	SOUTH DITCH				
			Sample	NEAR COVE		NEAR COVE	NEAR COVE	ACCESS ROAD	BACKGROUND				
			Description			DUPLICATE		NORTH OF SITE	WEST OF				
									MAGNOLIA				
Compound Name	CAS/SCAN	CLASS							STREET				
UNKNOWN	2911	ABN/2											
UNKNOWN	3006	ABN/2											
UNKNOWN	3018	ABN/2											
UNKNOWN	3110	ABN/2											
UNKNOWN	3111	ABN/2											
UNKNOWN	3133	ABN/2											
UNKNOWN	3149	ABN/2											
UNKNOWN	3173	ABN/2											
UNKNOWN	3240	ABN/2											
UNKNOWN	3244	ABN/2											
UNKNOWN	3287	ABN/2											
UNKNOWN	3319	ABN/2											
UNKNOWN	3374	ABN/2											
UNKNOWN	3429	ABN/2											
UNKNOWN	3471	ABN/2											

/OC - VOLATILE ABN - ACID/BASE/NEUTRAL PES - PESTICIDE/PCB
1 - TARGET COMPOUND LIST COMPOUND (TCL) 2 - TENTATIVELY IDENTIFIED COMPOUND (TIC)
J - ESTIMATED CONCENTRATION (TIC, TCL LESS THAN CRQL, OR TCL WITH QA/QC OUT OF CONTROL LIMITS) U - UNDETECTED, DETECTION LIMIT

Exhibit 3

Inorganic Analysis Results

DATA QUALITY ASSURANCE REVIEW

SITE NAME GOODSON & SON TRUCKING Channelview, TX

SITE CODE TKD981052475

PAN ITX0557SBF

CASE NUMBER 10883

LABORATORY Century Laboratories

SAMPLE NUMBERS

MFH-407	MFH-411	MFH-415	MFH-419
MFH-408	MFH-412	MFH-416	MFH-420
MFH-409	MFH-413	MFH-417	MFH-421
MFH-410	MFH-414	MFH-418	MFH-422

REVIEWER Victor Cason, ICF Technology

DATA EVALUATION

SITE NAME: Goodson & Son Trucking

CASE NUMBER: 10883

SAMPLE NUMBERS: MFH-407, MFH-408, MFH-409, MFH-410, MFH-411, MFH-412, MFH-413, MFH-414, MFH-415, MFH-416, MFH-417, MFH-418, MFH-419, MFH-420, MFH-421, AND MFH-422.

This data package consists of eight water and eight soil samples analyzed for metals and cyanide using low concentration protocols. The following qualifications are placed on the data.

Contractual Violations

1. The laboratory failed to analyze the CRDL standard for arsenic, lead, selenium and thallium.
2. The laboratory failed to analyze an aqueous Laboratory Control Sample for mercury or solid Laboratory Control Sample for mercury and cyanide.
3. The laboratory failed to report the Standard Addition results for lead in samples MFH-410, MFH-411, MFH-415, MFH-416 and MFH-422 on Form 8. Results were within control limits and correct results were reported on Form 1s.
4. A post digestion spike was not analyzed for antimony in the water matrix.
5. A time period of greater than 2 hours between calibration verification was noted in the ICP analysis sequence. The data quality does not appear to be affected significantly.

Data Transcription Errors

Numerous errors were noted in the labs transfer of the raw data to the forms and in flagging the data. These errors are detailed below.

1. Incorrect values for aluminum and calcium were listed on ICP Interference Check Samples (Form 4). Actual values were within control limits, therefore, the data is not affected.
2. The sample result for cyanide was listed incorrectly on the water spike sample recovery Form 5A for sample MFH-412S.
3. Spike sample results for barium and manganese were listed incorrectly on soil spike recovery Form 5A for sample MFH-409S. Corrected recovery for barium remained out of control limits, however, manganese recovery was within control limits.
4. Duplicate results for chromium in water sample MFH-417D were not flagged * as being out of control limits. Form 1s were also not flagged.
5. Incorrect values for the duplicate results of magnesium and sodium were reported in water sample MFH-417D. The lab reported the original instead of the dilution analysis. Results were within control limits when the correct values were used. The Form 1s needs corrections.
6. Duplicate results for cyanide in water sample MFH-412D were flagged by the lab as being out of control limits when in fact they are within control limits.
7. Duplicate results for cobalt in soil sample MFH-409D were flagged by the lab as being out of control limits when in fact they are within control limits.

8. The laboratory failed to flag aluminum, calcium, iron and zinc on Form 1s in the water samples and calcium, copper and nickel on Form 1s in the soil samples to indicate ICP serial dilutions out of control limits.
9. Required W flags were not included for selenium and thallium in several samples.

Sample Specific QA/QC

1. Reported results for calcium in sample MFH-407, MFH-408 and MFH-409 were outside of the reported linear range of the ICP. The samples were not diluted and reanalyzed. Reported concentrations of calcium in these samples are considered estimates (J flag).
2. The recovery of aluminum was out of control limits in one of the continuing calibration verifications. As a result, the reported concentrations of aluminum in samples MFH-410, MFH409L, MFH-417L, the final CRDL sample of the sequence, and the final interference check are considered estimates (J flag).
3. Reported detection limits for selenium in samples MFH-407, MFH-412 and MFH-415 were incorrect as the lab did not take into account sample dilutions.

General QA/QC

1. Antimony and calcium were detected in both the water and soil method blanks at concentrations below the CRDL. Sample concentrations of these metals less than 5 times their concentrations in the associated method blank are flagged "B" on the data summary.
2. The holding time of 14 days for cyanide analysis was exceeded for all samples. Therefore, all cyanide results are considered estimates (J flag).
3. Due to ICP Serial Dilution criteria out of control limits for aluminum, calcium, iron and zinc, all results for these metals in water samples have been flagged as estimates (J flag).
4. Due to ICP Serial Dilution criteria out of control limits for calcium, copper and nickel, all results for these metals in soil samples have been flagged as estimates (J flag).
5. The recovery for mercury in the water matrix spike was unacceptable. The data is considered unusable (R flag) in the water samples.
6. The recoveries for antimony, lead and copper in the soil matrix spike were unacceptable and the data is considered unusable (R flag) in all soil samples.
7. Recoveries for lead, and thallium were out of control limits in the water matrix spike. Reported concentrations and detection limits for these elements are considered estimates in all water samples (J flag). The actual concentrations for lead and thallium could be as great as 1.5 or 2.1 times the reported values, respectively.
8. Recovery of antimony was high in the water matrix spike. Reported concentrations of antimony are considered as estimates (J flag) and actual concentrations may be as low as 0.23 times that reported. Reported detection limits are acceptable.
9. Recoveries for arsenic, barium, beryllium, cadmium, chromium, cobalt, nickel, selenium, silver, thallium, vanadium, and zinc were out of control limits in the soil matrix spike, MFH-409S. Reported concentrations and detection limits of these metals are considered estimates (J flag). The actual concentrations could be as great as 1.4, 1.5, 1.4, 1.6, 1.5, 1.5, 1.4, 3.3, 2.6, 1.3, 1.5. and 1.5 times the reported values, respectively.

10. Most recoveries in the soil post digestion spike, MFH-409, were within control limits. This indicates that there was a problem with the digestion procedure. Those elements still out of control limits were antimony and copper indicating possible matrix problems with these metals.
11. Reported concentrations for chromium in water samples are considered estimates (J flag) due to duplicate criteria out of control limits.
12. Results for copper in the soil duplicate were unacceptable and all results have been flagged as unusable (R flag) in the soil samples.

INORGANIC ANALYSIS SUMMARY FOR SOIL

SITE NAME AND NUMBER: GOODSON & SON TRUCKING
CASE NUMBER: 10883 PAGE 1 OF 2
CONCENTRATIONS IN PARTS PER MILLION (PPM)

TRAFFIC REPORT NUMBER AND STATION LOCATION.

		MFH-407	MFH-408	MFH-409	MFH-410	MFH-411
		STATION #01 FILL MATERIAL	STATION #02 NORTH DITCH NEAR STORM SEWER	STATION #03 SOUTH DITCH	STATION #04 NORTH DITCH ABOVE SEWER	STATION #05 SOUTH DITCH BACKGROUND
	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
	% MOISTURE	35	27	32	31	14
	CAS NO.					
ALUMINUM	7429-90-5	9890	5940	8790	9340J	2170
ANTIMONY	7440-36-0	OR	OR	OR	OR	OR
ARSENIC	7440-38-2	5.800J	2.800J	4.110J	4.400J	1.400J
BARIUM	7440-39-3	29.400J	53.400J	55.400J	138J	84.400J
BERYLLIUM	7440-41-7	0.920UJ	0.830UJ	0.880UJ	0.870UJ	0.700UJ
CADMIUM	7440-43-9	1.500J	1.600J	2.050J	2.040J	0.930J
CALCIUM	7440-70-2	159000J	138000J	153000J	151000J	17200J
CHROMIUM	7440-47-3	9.800J	6.050J	15.200J	16.300J	5.350J
COBALT	7440-48-4	1.530UJ	1.380UJ	2.350J	2.300J	1.160UJ
COPPER	7440-50-8	OR	OR	OR	OR	OR
IRON	7439-89-6	9130	6460	8660	8190	3500
LEAD	7439-92-1	OR	OR	OR	OR	OR
MAGNESIUM	7439-95-4	1920	2110	3100	3240	1069
MANGANESE	7439-96-5	96.300	69.900	149	177	111
MERCURY	7439-97-6	0.150U	0.140U	0.140U	0.140U	0.110U
NICKEL	7440-02-0	7.400J	7.900J	13.500J	18.500J	3.950J
POTASSIUM	7440-09-7	8240	4301	5510	4210	497
SELENIUM	7782-49-2	9.200UJ	0.830UJ	0.880UJ	0.870UJ	0.700UJ
SILVER	7440-22-4	0.920UJ	0.830UJ	0.880UJ	0.870UJ	0.700UJ
SODIUM	7440-23-5	2000	2047	865	634	80
THALLIUM	7440-28-0	1.230UJ	1.100UJ	1.170UJ	1.170UJ	0.930J
TIN	7440-31-5	ONA	ONA	ONA	ONA	ONA
VANADIUM	7440-62-2	17.200J	15.400J	17J	21.600J	7.700J
ZINC	7440-66-6	38.300J	33.600J	37.600J	58.600J	76J
CYANIDE		3J	1.300UJ	1.320UJ	1.400UJ	1.200UJ
HARDNESS		ONA	ONA	ONA	ONA	ONA
ALKALINITY		ONA	ONA	ONA	ONA	ONA

R - DATA IS UNUSABLE DUE TO QA/QC OUT OF CONTROL LIMITS.
J - REPORTED CONCENTRATIONS OR DETECTION LIMITS ARE ESTIMATES DUE TO QA/QC OUT OF CONTROL LIMITS.
B - CONCENTRATION IN SAMPLE ATTRIBUTABLE TO BLANK CONTAMINATION.
U - NOT DETECTED; VALUE REPORTED IS THE DETECTION LIMIT.
NA - NOT ANALYZED

INORGANIC ANALYSIS SUMMARY FOR SOIL

SITE NAME AND NUMBER: GOODSON & SON TRUCKING
CASE NUMBER: 10883 PAGE 2 OF 2
CONCENTRATIONS IN PARTS PER MILLION (PPM)

TRAFFIC REPORT NUMBER AND STATION LOCATION.

		MFH-416	MFH-419	MFH-420		
		STATION #12 NORTH DITCH NEAR COVE	STATION #15 NORTH DITCH NEAR COVE DUPLICATE	STATION #16 SOUTH DITCH NEAR COVE		
	MATRIX	SOIL	SOIL	SOIL		
	% MOISTURE	18	19	19	0	0
	CAS NO.					
ALUMINUM	7429-90-5	801	687	8310	0	0
ANTIMONY	7440-36-0	OR	OR	OR	0	0
ARSENIC	7440-38-2	0.980UJ	0.990UJ	3.200J	0	0
BARIUM	7440-39-3	15.900J	18.800J	100J	0	0
BERYLLIUM	7440-41-7	0.730UJ	0.740UJ	0.740J	0	0
CADMIUM	7440-43-9	0.730J	0.740J	1.200J	0	0
CALCIUM	7440-70-2	21000J	21000J	38500J	0	0
CHROMIUM	7440-47-3	5.100J	4.200J	10.600J	0	0
COBALT	7440-48-4	1.220UJ	1.200UJ	3.450J	0	0
COPPER	7440-50-8	OR	OR	OR	0	0
IRON	7439-89-6	1800	2050	9440	0	0
LEAD	7439-92-1	OR	OR	OR	0	0
MAGNESIUM	7439-95-4	1490	1540	2530	0	0
MANGANESE	7439-96-5	6030	61.100	177	0	0
MERCURY	7439-97-6	0.100U	0.080U	0.370	0	0
NICKEL	7440-02-0	2.700J	2.700J	7.600J	0	0
POTASSIUM	7440-09-7	249	220	2630	0	0
SELENIUM	7782-49-2	0.730UJ	0.740UJ	0.740UJ	0	0
SILVER	7440-22-4	0.730UJ	0.740UJ	0.740UJ	0	0
SODIUM	7440-23-5	1080	960	5100	0	0
THALLIUM	7440-28-0	0.980UJ	0.990UJ	0.990UJ	0	0
TIN	7440-31-5	ONA	ONA	ONA	0	0
VANADIUM	7440-62-2	3.700J	3.200J	24.700J	0	0
ZINC	7440-66-6	18.300J	14.100J	46.400J	0	0
CYANIDE		1.200J	1.020UJ	0.990UJ	0	0
HARDNESS		ONA	ONA	ONA	0	0
ALKALINITY		ONA	ONA	ONA	0	0

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INORGANIC ANALYSIS SUMMARY FOR WATER

SITE NAME AND NUMBER: GOODSON & SON TRUCKING
CASE NUMBER: 10983 PAGE 1 OF 2
CONCENTRATIONS IN PARTS PER BILLION (PPB)

TRAFFIC REPORT NUMBER AND STATION LOCATION.

		DRINKING WATER CRITERIA P - PRIMARY S - SECONDARY	MFH-412 STATION #06 NORTH DITCH NEAR STORM SEWER	MFH-413 STATION #07 NORTH DITCH NEAR COVE	MFH-414 STATION #08 SOUTH DITCH NEAR SITE ENTRANCE	MFH-415 STATION #09 SOUTH DITCH NEAR COVE	MFH-417 STATION #13 NORTH DITCH NEAR COVE
	MATRIX		WATER	WATER	WATER	WATER	WATER
	% MOISTURE		100	100	100	100	100
	CAS NO.						
ALUMINUM	7429-90-5		2850J	435J	114J	128J	476J
ANTIMONY	7440-36-0		68JB	61JB	21JB	69JB	58JB
ARSENIC	7440-38-2	50P	25	4U	4U	4U	4U
BARIUM	7440-39-3	1000P	180	94	4U	116	94
BERYLLIUM	7440-41-7		3U	3U	3U	3U	3U
CADMIUM	7440-43-9	10P	7	9	7	13	8
CALCIUM	7440-70-2		65200J	93798J	22500J	179080J	93600J
CHROMIUM	7440-47-3	50P	21J	25J	7J	43J	28J
COBALT	7440-48-4		5U	5U	5U	6	5U
COPPER	7440-50-8	1000S	30	12	30	5	11
IRON	7439-89-6	300S	2820J	495J	415J	173J	539J
LEAD	7439-92-1	50P	20J	10J	12J	1UJ	1UJ
MAGNESIUM	7439-95-4		5560	185000	3810	511000	184000
MANGANESE	7439-96-5	50S	214	87	69	215	89
MERCURY	7439-97-6	2P	0R	0R	0R	0R	0R
NICKEL	7440-02-0		45	33	21	48	32
POTASSIUM	7440-09-7		1950000	136000	12200	155631	174000
SELENIUM	7782-49-2	10P	30U	3U	3U	30U	3U
SILVER	7440-22-4	50P	3U	5J	3U	8J	4J
SODIUM	7440-23-5		912000	1740000	814000	4870000	1700000
THALLIUM	7440-28-0		4UJ	4UJ	4UJ	4UJ	4UJ
TIN	7440-31-5		0NA	0NA	0NA	0NA	0NA
VANADIUM	7440-62-2		12	21	4U	30	20
ZINC	7440-66-6	5000S	249J	121J	125J	557J	337J
CYANIDE			39J	10UJ	10UJ	21J	10UJ
HARDNESS			0NA	0NA	0NA	0NA	0NA
ALKALINITY			0NA	0NA	0NA	0NA	0NA

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INORGANIC ANALYSIS SUMMARY FOR WATER

SITE NAME AND NUMBER: GOODSON & SON TRUCKING
CASE NUMBER: 10883 PAGE 2 OF 2
CONCENTRATIONS IN PARTS PER BILLION (PPB)

TRAFFIC REPORT NUMBER AND STATION LOCATION.

		DRINKING WATER CRITERIA P - PRIMARY S - SECONDARY	MFH-418 STATION #14 TRIP BLANK	MFH-421 STATION #10 STORM SEWER NEAR ACCESS ROAD	MFH-422 STATION #11 SOUTH DITCH BACKGROUND		
	MATRIX		WATER	WATER	WATER		
	% MOISTURE		100	100	100	0	0
	CAS NO.						
ALUMINUM	7429-90-5		17J	256J	314J	0	0
ANTIMONY	7440-36-0		54JB	32JB	24JB	0	0
ARSENIC	7440-38-2	50P	4U	4.010	4U	0	0
BARIUM	7440-39-3	1000P	4U	44	4	0	0
BERYLLIUM	7440-41-7		3U	3U	3U	0	0
CADMIUM	7440-43-9	10P	3	4	3	0	0
CALCIUM	7440-70-2		198J	42200J	19957J	0	0
CHROMIUM	7440-47-3	50P	3UJ	4J	6J	0	0
COBALT	7440-48-4		5U	5U	5U	0	0
COPPER	7440-50-8	1000S	3	13	14	0	0
IRON	7439-89-6	300S	32UJ	430J	484J	0	0
LEAD	7439-92-1	50P	1UJ	4J	4J	0	0
MAGNESIUM	7439-95-4		46	3160	5340	0	0
MANGANESE	7439-96-5	50S	4U	48	55	0	0
MERCURY	7439-97-6	2P	0R	0R	0R	0	0
NICKEL	7440-02-0		8U	13	17	0	0
POTASSIUM	7440-09-7		275	7160	6855	0	0
SELENIUM	7782-49-2	10P	3U	3U	3U	0	0
SILVER	7440-22-4	50P	3U	3U	3U	0	0
SODIUM	7440-23-5		279	34400	316588	0	0
THALLIUM	7440-28-0		4UJ	4UJ	4UJ	0	0
TIN	7440-31-5		0NA	0NA	0NA	0	0
VANADIUM	7440-62-2		4	9	4	0	0
ZINC	7440-66-6	5000S	8J	635J	272J	0	0
CYANIDE			20J	10UJ	10UJ	0	0
HARDNESS			0NA	0NA	0NA	0	0
ALKALINITY			0NA	0NA	0NA	0	0

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TABLE 1
Conductivity, Temperature, and pH
Measurements for all Water Samples
Collected at Goodson & Son Trucking

TABLE 1

WATER SAMPLE MEASUREMENTS

SAMPLE NUMBER	CONDUCTIVITY (MICROMHOS/CM)	TEMPERATURE °C	pH
6	12000	20	11.7
7	9000	19	8.2
8	1300	24	7.1
9	15000	24	7.3
10	500	21	6.9
11	1200	24	7.3
13	9000	19	8.2